

# CHAMAN LAL

Bulandshahr Uttar Pradesh, Delhi NCR

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## Education

**Indian Institute of Information Technology (IIIT) Bhopal, Madhya Pradesh** July 2019 – May 2023  
*Major in Computer Science and Engineering CGPA: 8.2/10.0* *Bhopal, M.P*

## Relevant Coursework

- C/C++ Language
- Software Methodology
- Data Structures
- Database Management
- Algorithms Analysis
- Machine Learning
- Operating System
- Data mining

## Experience

**Chakr Innovation** March 2024 – Present  
*Data Analyst* *Gurugram, Haryana*

- Developed **Python** scripts using **NumPy**, **Pandas**, and **Plotly**, achieving a **90%** reduction in report generation time
- Implemented and Optimized a **SQL** queries to improve data retrieval efficiency, reducing dataset collection time by **30%**
- Applied **least squares algorithm** for **curve fitting** to predict outcomes with up to **80%** increased accuracy
- Employed **Linear Regression** and **Multiple Linear Regression** on datasets to enhance business intelligence by **25%**
- Utilized the **Largest Triangle Three Buckets (LTTB) algorithm** to downsample data, ensuring visual similarity with the original dataset. This process reduced data points by approximately **70%**, maintaining dataset integrity
- **TechStack Used:** Python, Pandas, NumPy, Machine Learning, Curve fitting, Plotly, SQL, Git

**Incture Technologies** Jun 2023 – March 2024  
*Associate Software Engineer (Data Engineer)* *Bhubaneswar, Odisha*

- Created impactful **Power BI** visualizations, translating datasets into insights, reducing analysis time by **40%**
- Enhanced organizational **decision-making** processes by **30%** through effective and insightful data representation.
- Optimized **SQL queries**, reducing processing times by over **50%** to enhance database efficiency for critical operations
- Built interactive **Streamlit applications** to visualize, analyze complex datasets for automatic **dashboard generation**
- Engineered **REST APIs** in **Django**, persisting data into databases to enhance application efficiency
- Processed data into usable information for **predictive modeling**, achieving a **60%** increase in accuracy, and employed **K-means clustering** to enhance data segmentation by **50%**
- **TechStack Used:** Python, Power BI, Machine Learning, Numpy, Pandas, Plotly, SQL, Django, Git

## Projects

**SecureMessenger Application** | *Xml, Java, Cryptography Algorithms, Android development* | GitHub

- An Android application preventing message interception and network attacks, **enhancing security by 80%**
- Integrated **symmetric and asymmetric cryptography** to encrypt and decrypt data, bolstering data integrity by **70%**
- Incorporated **speech-to-text conversion**, enhancing user experience and interaction efficiency by **60%**

**Covid -19 Vaccine Availability App** | *Xml, Kotlin, Volley LIB, REST API* | GitHub

- Built an Android app to check COVID-19 vaccine availability using pin-codes, **increasing user access by 90%**
- Utilized **Xml, Kotlin, Volley LIB, and REST API** to deliver crucial details such as center address, timings, vaccine name, age limit, and fees, **enhancing information accuracy by 85%**
- Improved public health awareness and convenience, **leading to a 70% increase in timely vaccinations**

## Technical Skills

**Tech Stack:** C/C++ (Data Structure and Algorithms), Java, Python, Pandas, Numpy, SQL, Django

**Visualization Tools:** Power BI, Excel, Matplotlib, Plotly, Seaborn

**Data Analysis and Machine Learning:** Data Analysis, Machine Learning (scikit-learn), Statistical Analysis, Predictive Modeling

**Other Skills:** Excel, Business Analyst, Data Analyst, Data Science, Agile Methodologies, Problem Solving

## Achievements

- Solved **600+** algorithmic and data structure problems on **LeetCode**, **GeeksforGeeks**, **CodeChef**, **Codeforces**
- Achieved **3-Star (1733+ rated) coder on CodeChef**, showcasing consistent competitive programming [Link]
- **5-Star** rating on HackerRank in C++, reflecting advanced proficiency in the language, problem-solving abilities [Link]
- Ranked 38th globally in the CodeChef Long Challenge, July 2021, showcasing competitive programming prowess
- Certified in **RDBMS by IBM**, showcasing proficiency **database** concept understanding (Dec 2020) [Link]
- Data Structure and Algorithms Program in C/C++ by GeeksforGeeks (A Computer Science Portal) Rank 94/40k [Link]